

## ABSTRACT OF THE DISCLOSURE

The present invention relates to an apparatus for controlling an electrical device using a bio-signal measured when a user moves his/her face, and method thereof. The apparatus according to the present invention comprises a bio-signal detection unit for detecting the bio-signal generated when the user firmly shuts his/her mouth and when the user moves his/her head; a bio-signal amplification unit for amplifying the amount of the bio-signal detected in the bio-signal detection unit; an A/D converter for converting the amplified bio-signal into the bio-signal of a digital mode; a control unit for analyzing the bio-signal of the digital mode to determine a corresponding command of the user and then generating a determined command of the user; and a transmission unit for transmitting the determined command to the electrical device via infrared rays. Therefore, the present invention can be used to input various commands more realistically in a virtual reality since the hands and a foot can be used for another work.